

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Canceled).
2. (Previously presented) The method of Claim 31, wherein the bone marrow stromal cells are obtained from bone marrow from a vertebrate.
3. (Previously presented) The method of Claim 31, wherein the bone marrow stromal cells are obtained from bones removed from a vertebrate.
4. (Previously presented) The method of Claim 31, wherein the bone marrow stromal cells are mammalian.
5. (Original) The method of Claim 4, wherein the bone marrow stromal cells are human.
6. (Original) The method of Claim 4, wherein the bone marrow stromal cells are canine.
7. (Previously presented) The method of Claim 31, wherein the exogenous gene encodes a secreted peptide.
8. (Original) The method of Claim 7, wherein the secreted peptide is a serum protein, a blood clotting factor, a cytokine, a lymphokine, a growth factor, a peptide hormone, a lipid binding protein, a metabolic enzyme, an antibacterial peptide, an antimicrobial peptide, an antifungal peptide, or a neurotransmitter.
9. (Original) The method of Claim 8, wherein the blood clotting factor is factor VIII or factor IX.

10. (Previously presented) The method of Claim 31, wherein the exogenous gene encodes a cell surface molecule.

11. (Original) The method of Claim 10, wherein the cell surface molecule is V-CAM-1, I-CAM-1, N-CAM, or V-LAM.

12. to 29. (Canceled).

30. (Previously presented) The method of Claim 31, further comprising:

(f) thawing the cryopreserved transfected BMSCs.

31. (Currently amended) A method for preserving transfected bone marrow stromal cells (BMSCs) comprising:

- (a) providing BMSCs which have been transfected with an exogenous gene (transfected BMSCs), the level of expression of the exogenous gene of the transfected BMSCs having a predetermined value;
- (b) washing said transfected BMSCs;
- (c) detaching said transfected BMSCs from a tissue culture dish;
- (d) suspending said transfected BMSCs in cryopreservation medium comprising:
about 10% dimethyl sulfoxide, about 1-50% fetal bovine serum, and about 89-40% Dulbecco's modified Eagles' medium;
- (e) storing the transfected BMSCs at about -80°C ;

wherein said transfected BMSCs in the thawed state have a level of expression of the exogenous gene which is at least about 77% of said predetermined value.

32. (Previously presented) The method of claim 31 wherein said cryopreservation medium comprises about 12.5-50% fetal bovine serum and about 77.5-40% Dulbecco's modified Eagles' medium.

33. (Previously presented) The method of claim 32 wherein said cryopreservation medium comprises about 16% fetal bovine serum and about 74% Dulbecco's modified Eagles' medium.

34. (Canceled)